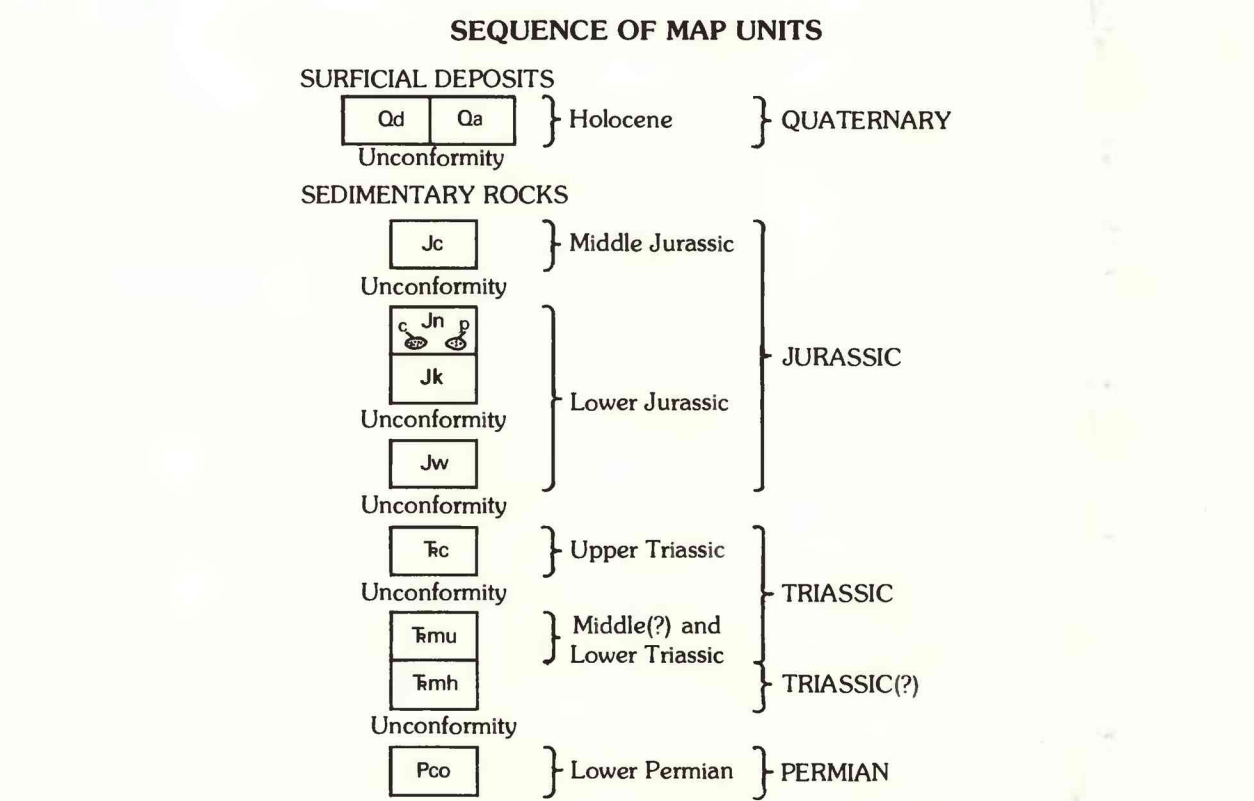


EXPLANATION OF MINERAL RESOURCE POTENTIAL
Geologic terrane having moderate mineral and energy resource potential for uranium and oil and gas, with certainty level C; and low mineral and energy resource potential for other metals, coal, and geothermal energy, all with certainty level C—Applies to entire study area



NOTE: Precise ages have not been established for Glen Canyon Group rocks in southeastern Utah. In this report, the Early Jurassic age assignment for the entire Glen Canyon Group (Wingate Sandstone, Kayenta Formation, and Navajo Sandstone) reflects a consensus of several active workers whose opinions are based on evaluation of available regional stratigraphic evidence. Lack of age-diagnostic fossils in Glen Canyon Group rocks of southeastern Utah precludes any positive age assignments.

— Contact—Dashed where inferred; dotted where concealed; base of Chinle Formation dotted in Red Canyon where concealed by talus breccia and landslide debris.

U High-angle fault—Dashed where inferred; dotted where concealed; U, upthrown side; D, downthrown side; ball and bar on downthrown side; displacement (in feet) shown where measured.

— Lineament from aerial photographs.

— Strike and dip of beds—Determined by a computerized photogrammetric method using a series of measured points on an outcropping planar bed automatically fitted to a least-square adjustment; accuracy of dip measurement is about 0.2°.

— Vertical joint—Showing strike.

— Mine adit.

— Rock quarry or mine.

— Prospect pit.

— Channel—Showing trend; at base of Chinle Formation; dashed where inferred from Thaden and others, 1964.

— Thin (<40 in) carbonate lenses within Navajo Sandstone—Shown by compact stipple; in cliff exposures, shown as irregular line; small areas labeled "c"; numbered to show relative stratigraphic position, where known; lenses occur on interdune planar surfaces.

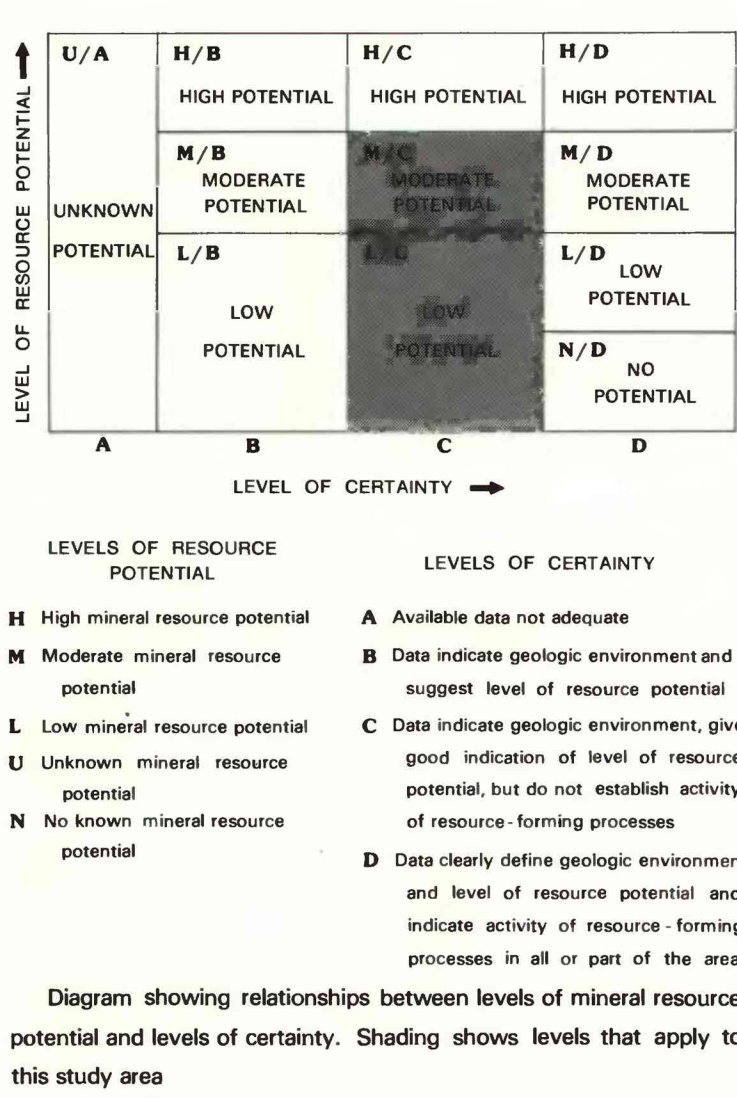
— Planar surfaces within Navajo Sandstone—Shown by open stipple; in cliff exposures, shown as irregular line; small areas labeled "p".

— Drill hole for petroleum exploration—Dry and abandoned.

— Paved highway.

— Gravel or dirt road.

— Jeep, motorcycle, or foot trail.



MINERAL RESOURCE POTENTIAL AND GEOLOGY OF THE MANCOS MESA WILDERNESS STUDY AREA, SAN JUAN COUNTY, UTAH